June 10, 2001

Mr. Jim Christiansen
United States Environmental Protection Agency
Region 8
999 18th Street - Suite 300
Denver, CO 80202-2466

Ref: 8EPR-SR

RE: Richardson Flat Monthly Status Report for May 2001.

Dear Mr. Christiansen:

This monthly Status Report details site activities conducted at Richardson Flat for the month of May 2001. Also included are the proposed site activities for the months of June and July.

Sampling Activities Conducted:

Surface water, soils and tailings were sampled during the week of May 7, 2001.

Surface Water sampling:

On May 7, 2001 the second round of monthly surface water sampling was conducted. Samples were collected at locations RF-8, RF7-2, RF6-2, RF5, RF4, RF3-2, RF2 and RF1. One duplicate sample was collected at location RF4. Samples were submitted to the laboratory on May 8, 2001.

Onsite Soils Cover Sampling:

Onsite soils cover sampling was conducted during the week of May 7, 2001. Soil samples were collected at forty-one locations.

Off-Site Soils Cover Sampling:

Off-site soils cover sampling was conducted during the week of May 7, 2001. Samples were collected at twenty-eight locations along three transects outside of the impoundment area.

Tailings Sampling:

Tailings sampling was conducted on May 9, 2001. Samples were collected from three test pits located within the tailings impoundment.

Delineation of Tailings South of the Diversion Ditch:

Delineation of tailings south of the diversion ditch was conducted during the week of May 7, 2001. The delineation was conducted by excavating forty-nine test pits. The test pits were visually observed, no analytical samples were collected.

Background Soil Samples:

Background Soil Sampling was conducted on May 10, 2001. Eleven background soil samples were collected in the vicinity of the Site.

Monitoring Well Installation:

Silver Creek

Monitoring wells were installed on May 11 and May 29, 2001. One upgradient (RT-11) and one downgradient (RT-12) well were installed adjacent to Silver Creek outside of the impoundment. Prior to the installation of the these two monitoring wells a series of nine soil borings were completed to assess soil conditions in the vicinity of the two proposed monitoring well locations.

Impoundment

Three monitoring wells (RT-13, RT-14 and RT-15) were installed south of the diversion ditch. These wells replace the two piezometers detailed in the Sample and Analysis Plan. Prior to the installation of the three monitoring wells the soils and water levels in the vicinity of each monitoring well location were visually examined in a backhoe excavated test pit.

Surveying:

Sample locations and RT-14 were surveyed by GPS the week of May 14, 2001. Sample and Monitoring well locations are presented in Figure 1. Test Pits GL-40 through GL-49 and Monitoring Wells RT-11, RT-12, RT-15 and RT-13 locations have not been surveyed as of May 31, 2001, the locations currently detailed on Figure 1 are approximate.

Results:

Surface water sampling results are reported in Table 1, laboratory reports are located in Appendix A. Field data sheets and chain-of-custody forms can be found in Appendix B. Test pit, Monitoring well and soil boring logs can be found in Appendix C. An electronic copy of the AEC laboratory analytical report will be emailed to you and Jeff Montera. The Frontier Geosciences laboratory report for the low detection mercury results will not be emailed, however, these data are included in the summary table and a hard copy of the report is included in Appendix A.

Planned Activities: June 2001

1. Monthly surface and groundwater sampling will be conducted the week of June 4, 2001.
2. Test Pits GL-40 through GL-49 and Monitoring Wells RT-11, RT-12, RT-15 and RT-13 will be surveyed during the month of June, 2001

Planned Activities: July 2001

1. Monthly surface and groundwater sampling will be conducted the week of July 2, 2001.

If you should have any questions or comments, please contact me at 801-255-2626.

Best regards,

James R. Fricke
RMC

Attachment: Figure 1, Sample Location Map
Table 1, Analytical Summary - Water
Table 2, Analytical Summary - Soil

Cc: Jeff Montera
Kerry Gee
Kevin Murray
Muhammed Slam

LEGEND

T1G ○ OFF-SITE SOIL SAMPLE
5E ○ ONSITE SOIL COVER SAMPLE
SD-1 ○ SEDIMENT SAMPLE
GL-2 ○ TAILINGS SOUTH OF DIVERSION DITCH TEST PIT
TP-2 ○ TAILINGS TEST PIT
RT-11 ○ MONITORING WELL

STUDY AREA BOUNDARY
MAIN EMBANKMENT
IMPOUNDMENT
NORTH DIVERSION DITCH
SOUTH DIVERSION DITCH
HISTORICAL RAILROAD GRADE
COUNTY ROAD
SILVER CREEK
STATE HIGHWAY 40

NOTE: LOCATIONS GL-40 TO GL-49 ARE APPROXIMATE, NOT SURVEYED

SCALE 0 100 200 300 400 FEET

UNITED PARK CITY MINES

FIGURE 1
RICHARDSON FLAT
REMEDIAL INVESTIGATION
SAMPLE LOCATIONS

RESOURCE MANAGEMENT CONSULTANTS
813B SOUTH STATE ST.
SUITE 2A
MIDVALE, UT 84047
801-255-2626

JUNE 2001

RIFS-SURVEY-PNTS.DWG

Table 1, Analytical Summary - Surface Water Data, Richardson Flat Remedial Investigation

units mg/l except where noted

Lab #	Date	Sample #	AG	AG(D)	AL	AL(D)	ALK.	AS	AS(D)	CA	CAT/ AN BAL	CD	CD(D)	CL-	CO3	CR	COND.	CR(D)	CU	CU(D)	FE	FE(D)	HARD	HCO3	HG	HG(D)	HG	K	MG	MN	MN(D)	NA	NH3/N	NO2/NO3	P	PB	PB(D)	PH	SB	SB(D)	SE	SE(D)	SO4=	TDS	TSS	ZN	ZN(D)	Flow
																											ppt																							cfs
L010626-001	5/7/01	RF-SW-RF1	<.005	<.005	.078	<.050	121	<.005	<.005	46.	-.06	<.001	<.001	20.	<1	<.010	438.	<.010	.015	.016	<.1	<.1	165.	121.	<.2	<.2	1.98	<2	11.	.013	<.005	20.	.20	.29	<.1	.005	.007	8.0	<.005	<.005	<.004	<.004	78.	339.	<1	.053	.037	
L010626-002	5/7/01	RF-SW-RF2	<.005	<.005	.16	<.050	183	<.005	<.005	67.	+1.2	<.001	<.001	83.	<1	<.010	657.	<.010	.018	.016	.25	<.1	234.	183.	<.2	<.2		3.0	16.	.034	.024	37.	.10	<.1	<.1	.005	.005	8.3	.006	.010	<.004	<.004	41.	454.	<1	.094	.079	
L010626-003	5/7/01	RF-SW-RF3-2	<.005	<.005	<.050	<.050	117	.017	.010	48.	-2.3	<.001	<.001	212.	8.0	<.010	927.	<.010	.022	.020	<.1	<.1	171.	109.	<.2	<.2		3.5	13.	.007	<.005	113.	.22	<.1	<.1	.007	.005	8.5	.012	.015	<.004	<.004	40.	572.	<1	.058	.040	
L010626-004	5/7/01	RF-SW-RF4	<.005	<.005	<.050	<.050	260	.006	<.005	200.	-4.2	.001	<.001	83.	<1	<.010	1386.	<.010	.017	.016	<.1	<.1	677.	260.	<.2	<.2		<2	43.	.44	.46	38.	.30	.14	<.1	<.005	.006	8.0	<.005	<.005	<.004	<.004	475.	1082	19.	2.7	2.6	
L010626-005	5/7/01	RF-SW-RF5	<.005	<.005	<.050	<.050	259	<.005	<.005	240.	-3.5	<.001	<.001	72.	<1	<.010	1516.	<.010	.017	.019	<.1	<.1	814.	259.	<.2	<.2		<2	52.	.11	.11	37.	.15	<.1	<.1	<.005	<.005	8.2	<.005	<.005	<.004	<.004	619.	1224.	<1	.90	.86	
L010626-006	5/7/01	RF-SW-RF6-2	<.005	<.005	<.050	<.050	220	.009	<.005	215.	-5.5	<.001	<.001	90.	<1	<.010	1508.	<.010	.017	.016	<.1	<.1	729.	220.	<.2	<.2	0.86	<2	47.	.43	.40	47.	.26	<.1	<.1	<.005	.007	8.2	.010	<.005	<.004	<.004	598.	1192.	<1	.20	.11	0.575
L010626-007	5/7/01	RF-SW-RF504	<.005	<.005	.052	<.050	255	<.005	<.005	201.	-3.0	.001	<.001	73.	<1	<.010	1378.	<.010	.018	.017	.11	<.1	677.	255.	<.2	<.2		<2	43.	.44	.45	39.	.27	.11	<.1	<.005	<.005	7.9	.006	<.005	<.004	<.004	479.	1055	<1	2.6	2.5	
L010626-008	5/7/01	RF-SW-RF7-2	<.005	<.005	.10	<.050	145	<.005	<.005	126.	-4.0	.008	.006	269.	<1	<.010	1587.	<.010	.020	.017	.21	<.1	433.	145.	<.2	<.2		2.5	29.	.21	.21	134.	.26	.16	<.1	.026	.006	8.1	.010	.011	<.004	<.004	279.	1007.	1.4	2.1	2.0	5.92
L010626-009	5/7/01	RF-SW-RF8	<.005	<.005	<.050	<.050	163	<.005	<.005	135.	-1.2	.006	.004	224.	<1	<.010	1495.	<.010	.019	.016	.20	<.1	467.	163.	<.2	<.2	23	2.4	31.	.17	.16	120.	.32	.18	<.1	.018	<.005	8.2	.011	.009	<.004	<.004	285.	983.	1.5	1.9	1.7	

Table 2, Analytical Summary - Soil Data, Richardson Flat Remedial Investigation

units mg/l

Lab #	Date	Sample #	AG	AS	BA	CD	CR	CU	HG	PB	SE	ZN
L010671-001	5/8/01	RF-ON-2H 0-2"	<5.	<5.	208.	<0.5	23.	14.	<.1	17.	<5.	64.
L010671-002	5/8/01	RF-ON-4F 0-2"	<5.	6.	221.	<0.5	16.	19.	<.1	20.	<5.	64.
L010671-003	5/8/01	RF-ON-4F50 0-2"	<5.	6.	216.	<0.5	16.	29.	<.1	21.	<5.	65.
L010671-004	5/8/01	RF-ON-4D 0-2"	<5.	6.	327.	<0.5	22.	27.	<.1	18.	<5.	74.
L010671-005	5/8/01	RF-ON-5D 0-2"	<5.	5.	175.	<0.5	33.	26.	<.1	33.	<5.	101.
L010671-006	5/8/01	RF-ON-3E 0-2"	<5.	<5.	356.	<0.5	20.	20.	<.1	14.	<5.	47.
L010671-007	5/8/01	RF-ON-3E50 0-2"	<5.	<5.	365.	<0.5	21.	19.	<.1	16.	<5.	52.
L010671-008	5/8/01	RF-ON-5B 0-2"	<5.	6.	198.	<0.5	21.	25.	<.1	24.	<5.	72.
L010671-009	5/9/01	RF-OF-T2H 1-6"	<5.	7.	305.	<0.5	30.	22.	<.1	34.	<5.	79.
L010671-010	5/9/01	RF-OF-T2H 0-2"	<5.	9.	301.	1.	31.	26.	<.1	62.	<5.	107.
L010671-011	5/8/01	RF-ON-3A 0-2"	<5.	49.	210.	6.	24.	99.	.7	875.	<5.	1010.
L010671-012	5/9/01	RF-OF-T3D 1-6"	<5.	7.	413.	1.	23.	32.	<.1	42.	<5.	125.
L010671-013	5/9/01	RF-OF-T3B 1-6"	<5.	27.	215.	16.	20.	67.	3.0	555.	<5.	933.
L010671-014	5/8/01	RF-ON-2H50 0-2"	<5.	<5.	204.	<0.5	22.	13.	<.10	16.	<5.	62.
L010671-015	5/8/01	RF-ON-3I 0-2"	<5.	9.	187.	1.	20.	25.	<.10	127.	<5.	209.
L010671-016	5/9/01	RF-OF-T350D 0-2"	<5.	8.	383.	1.	21.	34.	.11	66.	<5.	152.
L010671-017	5/9/01	RF-OF-T3B 0-2"	<5.	47.	236.	43.	21.	112.	3.2	1070.	<5.	1800.
L010671-018	5/9/01	RF-OF-T3D 1-6"	<5.	7.	407.	1.	21.	32.	<.10	33.	<5.	111.
L010671-019	5/8/01	RF-ON-4C 0-2"	<5.	12.	240.	1.	24.	28.	.2	83.	<5.	172.
L010671-020	5/9/01	RF-ON-3D 0-2"	<5.	46.	255.	3.	24.	81.	.4	515.	<5.	651.
L010671-021	5/9/01	RF-OF-T3D 0-2"	<5.	8.	409.	1.	20.	35.	.1	73.	<5.	165.
L010671-022	5/9/01	RF-OF-T250F 1-6"	<5.	8.	238.	<0.5	22.	23.	<.1	48.	<5.	102.
L010671-023	5/9/01	RF-OF-T2F 0-2"	<5.	15.	218.	1.	21.	40.	<.10	194.	<5.	270.
L010671-024	5/9/01	RF-OF-T250F 0-2"	<5.	16.	233.	2.	21.	38.	<.10	189.	<5.	276.
L010671-025	5/9/01	RF-OF-T2F 1-6"	<5.	6.	246.	<0.5	22.	20.	<.10	19.	<5.	65.
L010671-026	5/10/01	RF-OF-T1C 1-6"	<5.	9.	188.	1.	21.	25.	<.10	92.	<5.	165.
L010671-027	5/10/01	RF-BG-BG8 0-2"	<5.	14.	265.	1.	20.	29.	.15	84.	<5.	127.
L010671-028	5/10/01	RF-BG-BG10	<5.	7.	227.	<0.5	22.	16.	<.10	33.	<5.	96.
L010671-029	5/10/01	RF-BG-BG1050	<5.	7.	213.	<0.5	23.	15.	<.10	28.	<5.	90.
L010671-030	5/10/01	RF-OF-T1C 0-2"	<5.	8.	199.	1.	22.	23.	<.10	62.	<5.	125.

TARGET SHEET

EPA REGION VIII

SUPERFUND DOCUMENT MANAGEMENT SYSTEM

DOCUMENT NUMBER: 2008734

SITE NAME: RICHARDSON FLAT TAILINGS

DOCUMENT DATE: 06/10/2001

DOCUMENT NOT SCANNED

Due to one of the following reasons:

☐ PHOTOGRAPHS

☐ 3-DIMENSIONAL

☐ OVERSIZED

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☐ POOR LEGIBILITY

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☐ NOT AVAILABLE

☑ TYPES OF DOCUMENTS NOT TO BE SCANNED
(Data Packages, Data Validation, Sampling Data, CBI, Chain of Custody)

DOCUMENT DESCRIPTION:

APPENDIX A Laboratory Reports
APPENDIX B Field Data Sheets
APPENDIX C Test Pit Logs, Soil Boring Logs, Monitoring Well Logs

Contact the Superfund Records Center to view available document.
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